

## Overview

Our device is designed as a parking lot assistance system that could allow a user to access information about the spots available, the ones taken, and be able to reserve a spot if they so wished, so they can plan ahead.

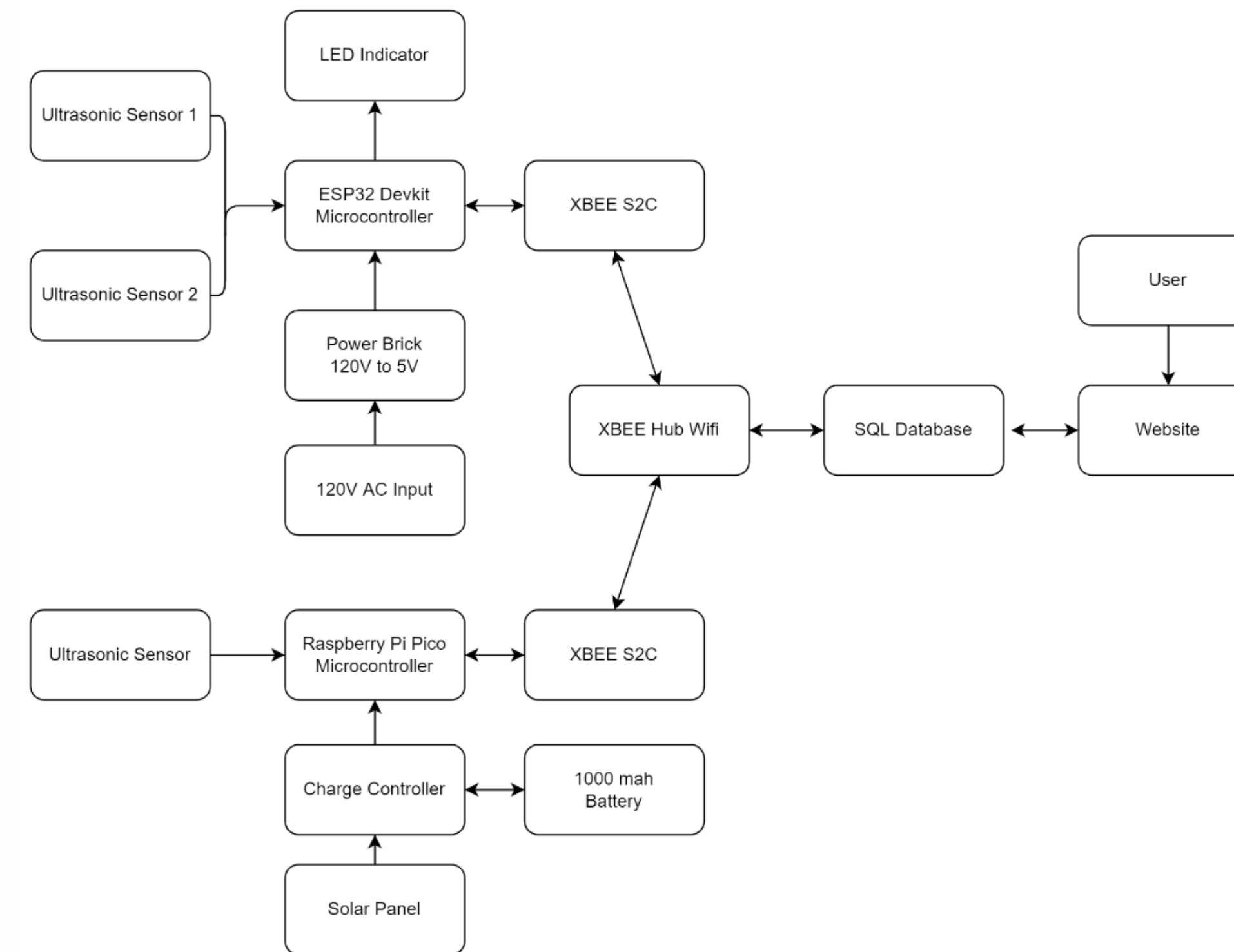
## Outdoor Device



## Objectives

- Create a easy to use, and modular solution to parking space congestion
- Create a GUI accessible through the web for determining the state of the lot
- Use wireless communications to create a mesh network of sensor devices for flexible placement

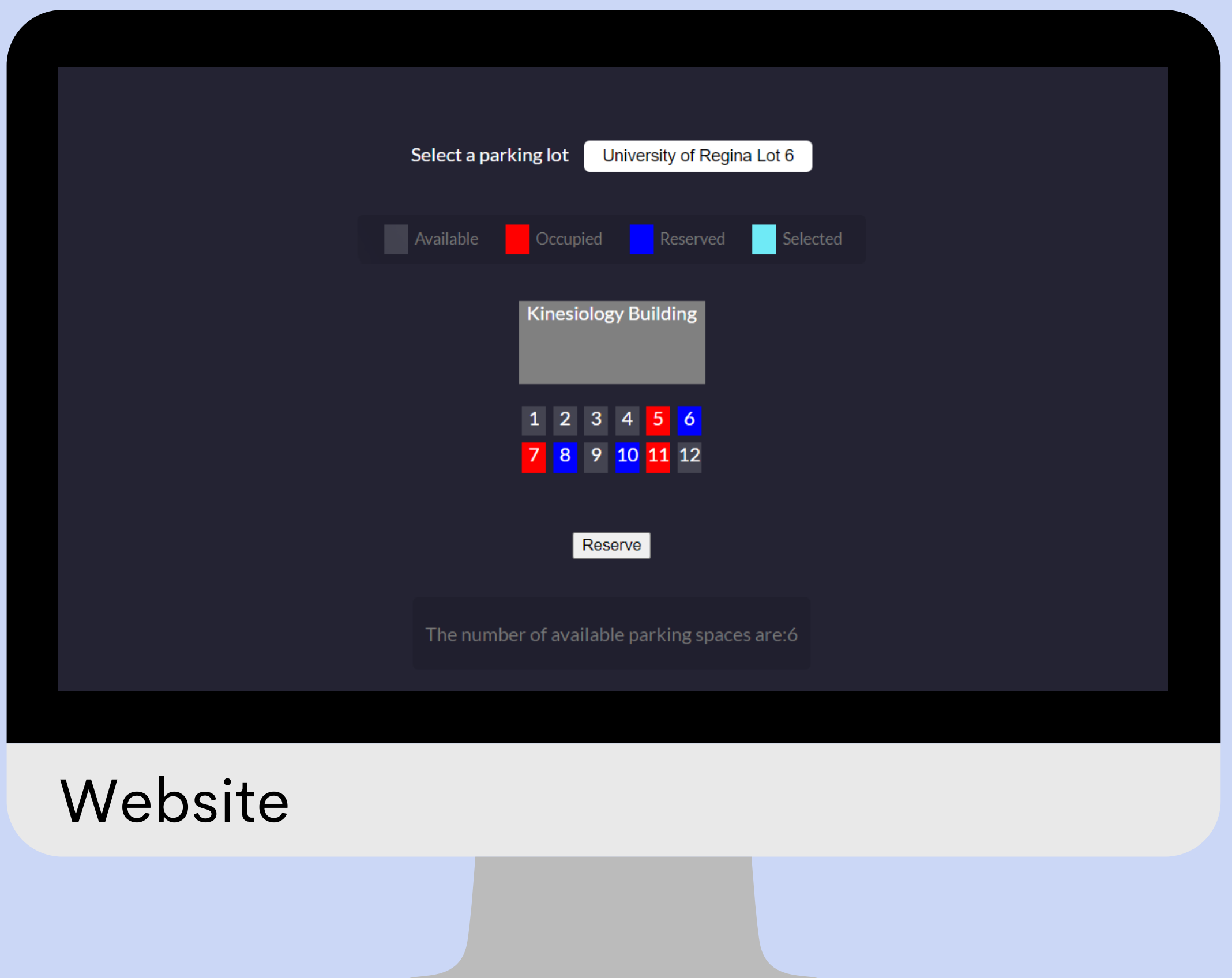
## Block Diagram



## Features

- Able to check for availability of parking spaces within a parking lot using an array of sensors
- Reservations within the website, to "hold" a parking space with an indicator for the time between leaving, and arriving at the lot
- LED on indoor sensor to indicate state, Green for available, Red for occupied, and Blue for reserved
- Solar-powered outdoor sensor, integrated with low-power microcontroller for wireless usage
- Flexible and modular design

## Indoor Device



## Website